Katie M. Brown
Counsel

Duke Energy
40 W. Broad Street
Suite 690
Greenville, SC 29601

O: 864-370-5296
F: 864-370-5027

Katie.Brown2@duke-energy.com

November 30, 2021

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Executive Director
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, SC 29210

Re: Duke Energy Progress, LLC- Monthly Fuel Report
Docket Number: 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of October 2021.

Sincerely,

Katie M Brown

Katie M. Brown

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Mr. Andrew Bateman, Office of Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Mr. Ryder Thompson, Office of Regulatory Staff

Schedule 1

DUKE ENERGY PROGRESS
SUMMARY OF MONTHLY FUEL REPORT

Line No.	Item		OCTOBER 2021
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$	111,932,273
	MWH sales:		
2	Total System Sales		5,126,405
3	Less intersystem sales		553,441
4	Total sales less intersystem sales		4,572,964
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)		2.4477
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)		2.2559
	Generation Mix (MWH):		
	Fossil (By Primary Fuel Type):		
7	Coal		217,237
8	Oil		21,304
9	Natural Gas - Combustion Turbine		173,087
10	Natural Gas - Combined Cycle		1,485,312
11	Biogas		799
12	Total Fossil		1,897,738
13	Nuclear		2,466,656
14	Hydro - Conventional		38,181
15	Solar Distributed Generation		20,229
16	Total MWH generation		4,422,804

Notes:
Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description		OCTOBER 2021
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	$	6,520,029
0501310 fuel oil consumed - steam		187,730
Total Steam Generation - Account 501		6,707,759
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		14,608,188
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		3,851,722
0547000 natural gas capacity - Combustion Turbine		522,397
0547000 natural gas consumed - Combined Cycle		47,302,296
0547000 natural gas capacity - Combined Cycle		11,395,409
0547106 biogas consumed - Combined Cycle		32,221
0547200 fuel oil consumed		3,417,992
Total Other Generation - Account 547		66,522,037
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		41,634,426
Fuel and fuel-related component of DERP purchases		71,057
PURPA purchased power capacity		8,872,563
DERP purchased power capacity		16,678
Total Purchased Power and Net Interchange - Account 555		50,594,724
Less:		
Fuel and fuel-related costs recovered through intersystem sales		26,965,678
Solar Integration Charge		(18)
Miscellaneous Fees Collected		(6,030)
Total Fuel Credits - Accounts 447/456		26,959,630
Total Costs Included in Base Fuel Component	$	111,473,078
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	$	2,782
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense		517,666
Emission Allowance Gains		-
Less reagents expense recovered through intersystem sales - Account 447		42,102
Less emissions expense recovered through intersystem sales - Account 447		19,150
Total Costs Included in Environmental Component		459,195
Fuel and Fuel-related Costs excluding DERP incremental costs	$	111,932,273
DERP Incremental Costs		322,201
Total Fuel and Fuel-related Costs	$	112,254,474

Notes:
Detail amounts may not add to totals shown due to rounding.
DERP details are presented on Page 2.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description		OCTOBER 2021
DERP Avoided Costs (Total Capacity and Energy)		
Purchased Power Agreements	$	8,038
Shared Solar Program		960
Total DERP Avoided Costs	$	8,999
DERP Incremental Costs		
Purchased Power Agreements		5,970
DERP NEM Incentive		194,867
Solar Rebate Program - Amortization		51,614
Solar Rebate Program - Carrying Costs		38,783
Shared Solar Program		8,963
NEM Avoided Capacity Costs		558
NEM Meter Costs		12,183
General and Administrative Expenses		9,218
Interest on under-collection due to cap		46
Total DERP Incremental Costs	$	322,201

Notes:
Detail amounts may not add to totals shown due to rounding.
All amounts represent SC retail.

DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

OCTOBER 2021

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	**$**	**$**	**mWh**	**Fuel $**	**Non-fuel $**
Broad River Energy, LLC	$ 3,370,682	$ 1,415,928	31,292	$ 1,954,754	-
City of Fayetteville	347,030	302,500	658	44,530	-
DE Carolinas - Native Load Transfer	2,495,611	-	44,875	2,463,626	$ 31,985
DE Carolinas - Native Load Transfer Benefit	449,021	-	-	449,021	-
Haywood EMC	28,000	28,000	-	-	-
NCEMC	3,833,236	2,757,406	16,274	1,075,830	-
PJM Interconnection, LLC	75	-	-	75	-
Southern Company Services	11,095,597	1,543,587	183,436	9,552,010	-
Energy Imbalance	22,447	-	405	22,026	421
Generation Imbalance	-	-	20	-	-
	$ 21,641,699	**$ 6,047,421**	**276,960**	**$ 15,561,872**	**$ 32,406**
Act 236 PURPA Purchases					
DERP Qualifying Facilities	$ 95,193	-	2,322	$ 95,193	-
Other Qualifying Facilities	19,289,180	-	303,699	19,289,180	-
Renewable Energy	13,024,875	-	190,535	13,024,875	-
Competitive Procurement Renewable Energy	2,631,062	-	73,924	2,631,062	-
	$ 35,040,310	**-**	**570,480**	**$ 35,040,310**	**-**
Total Purchased Power	**$ 56,682,009**	**$ 6,047,421**	**847,440**	**$ 50,602,182**	**$ 32,406**

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

OCTOBER 2021

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Market Based:					
NCEMC Purchase Power Agreement	$ 1,512,918	$ 652,500	13,826	$ 792,719	$ 67,699
PJM Interconnection, LLC	345,643	-	6,038	289,768	55,875
Other:					
DE Carolinas - Native Load Transfer	24,363,789	-	533,549	23,472,276	891,513
DE Carolinas - Native Load Transfer Benefit	2,471,739	-	-	2,471,739	-
Generation Imbalance	446	-	28	429	17
Total Intersystem Sales	**$ 28,694,535**	**$ 652,500**	**553,441**	**$ 27,026,931**	**$ 1,015,104**

* Sales for resale other than native load priority.
NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
OCTOBER 2021

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,572,964,372
2	DERP Net Metered kWh generation	Input					3,020,045
3	Adjusted System kWh sales	L1 + L2					4,575,984,417
4	Actual S.C. Retail kWh sales	Input	136,113,691	21,472,281	305,358,127	6,093,685	469,037,784
5	DERP Net Metered kWh generation	Input	1,871,442	46,844	1,101,759		3,020,045
6	Adjusted S.C. Retail kWh sales	L4 + L5	137,985,133	21,519,125	306,459,886	6,093,685	472,057,829
7	Actual S.C. Demand units (kw)	L32 / 31b *100			632,475		
Base fuel component of recovery - non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					$90,594,974
9	Eliminate avoided fuel benefit of S.C. net metering	Input					$68,077
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					$90,663,051
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					1.981
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	$2,733,871	$426,354	$6,071,828	$120,733	$9,352,786
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	($31,128)	($4,306)	($32,644)	$0	($68,077)
14	S.C. Retail portion of incurred system expense	L12 + L13	$2,702,743	$422,048	$6,039,184	$120,733	$9,284,709
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	1.873	1.874	1.874	1.874	1.874
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	$2,549,585	$402,391	$5,722,411	$114,196	$8,788,583
17	DERP NEM incentive - fuel component	Input	($753)	($104)	($789)	$0	($1,646)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	$2,548,832	$402,287	$5,721,622	$114,196	$8,786,937
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L14 - L18	$153,911	$19,761	$317,562	$6,537	$497,771
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	**$153,911**	**$19,761**	**$317,562**	**$6,537**	**$497,771**
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.716	0.628			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			162		
23	Incurred S.C. base fuel - capacity expense	Input	$975,030	$134,868	$1,022,519		$2,132,417
24a	Billed base fuel - capacity rates by class (¢/kWh) - Note 2	Input	0.462	0.580			
24b	Billed base fuel - capacity rate (¢/kW)	Input			157		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	$628,276	$124,539	$992,984	$0	$1,745,799
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L23 - L25	$346,754	$10,329	$29,535	$0	$386,618
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	**$346,754**	**$10,329**	**$29,535**	**$0**	**$386,618**
Environmental component of recovery							
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.016	0.014			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			4		
30	Incurred S.C. environmental expense	Input	$21,535	$2,979	$22,584		$47,098
31a	Billed environmental rates by class (¢/kWh) - Note 3	Input	0.005	0.015			
31b	Billed environmental rate (¢/kW)	Input			4		
32	Billed S.C. environmental revenue	L31a * L4 /100	$6,756	$3,221	$ 25,299		$35,276
33	S.C. environmental (over)/under recovery [See footnote]	L30 - L32	$14,779	($242)	($2,715)	$0	$11,822
34	Adjustment	Input					
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	**$14,779**	**($242)**	**($2,715)**	**$0**	**$11,822**
Distributed Energy Resource Program component of recovery: avoided costs							
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.003	0.003			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			1		
37	Incurred S.C. DERP avoided cost expense	Input	$4,115	$569	$4,315		$8,999
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh) - Note 4	Input	0.003	0.004			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			1		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	$4,053	$859	$6,325		$11,237
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L37 - L39	$62	($290)	($2,010)	$0	($2,238)
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	**$62**	**($290)**	**($2,010)**	**$0**	**($2,238)**
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	**$515,506**	**$29,558**	**$342,372**	**$6,537**	**$893,973**

Cumulative (over) / under recovery - **BASE FUEL NON-CAPACITY**	**Cumulative**	**Total Residential**	**General Service Non-Demand**	**Demand**	**Lighting**	**Total**
Balance ending February 2021	$10,892,003	5,429,351	468,956	4,889,765	103,931	10,892,003
March 2021 - actual	10,684,199	(89,214)	(9,718)	(106,292)	(2,580)	(207,804)
April 2021 - actual	10,033,278	(193,518)	(28,845)	(420,114)	(8,444)	(650,921)
May 2021 - actual	12,543,282	711,542	104,099	1,658,133	36,230	2,510,004
June 2021 - actual	14,049,424	474,479	66,073	946,736	18,854	1,506,142
July 2021 - actual	15,898,751	648,783	86,388	1,093,436	20,720	1,849,327
August 2021 - actual	19,073,760	1,036,684	138,270	1,968,622	31,433	3,175,009
September 2021 - actual	17,936,913	(406,263)	(62,940)	(654,674)	(12,970)	(1,136,847)
October 2021 - actual	18,434,684	153,911	19,761	317,562	6,537	497,771
November 2021 - forecast	18,095,981	(104,266)	(15,493)	(213,801)	(5,143)	(338,703)
December 2021 - forecast	18,914,356	304,553	33,984	468,581	11,257	818,375
January 2022 - forecast	19,751,615	337,595	33,040	455,700	10,924	837,259
February 2022 - forecast	19,874,836	50,298	4,818	66,514	1,591	123,221
March 2022 - forecast	20,000,442	46,754	5,212	71,918	1,722	125,606
April 2022 - forecast	19,099,659	(313,384)	(38,837)	(535,715)	(12,847)	(900,783)
May 2022 - forecast	18,782,390	(95,605)	(14,663)	(202,160)	(4,841)	(317,269)
June 2022 - forecast	$19,172,050	135,945	16,769	231,440	5,506	389,660
		8,127,645	806,874	10,035,651	201,880	19,172,050

Cumulative (over) / under recovery - **BASE FUEL CAPACITY**	**Cumulative**	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2021	$5,044,753	1,223,539	181,264	3,639,950	-	5,044,753
March 2021 - actual	5,042,812	(143,103)	39,099	102,063	-	(1,941)
April 2021 - actual	5,585,129	186,048	61,096	295,173	-	542,317
May 2021 - actual	6,269,253	303,937	64,155	316,032	-	684,124
June 2021 - actual	6,506,915	14,070	33,286	190,306	-	237,662
July 2021 - actual	7,210,840	244,280	42,063	417,582	-	703,925
August 2021 - actual	7,366,024	128,139	(14,819)	41,864	-	155,184
September 2021 - actual	7,463,537	105,912	(25,696)	17,297	-	97,513
October 2021 - actual	7,850,155	346,754	10,329	29,535	-	386,618
November 2021 - forecast	7,873,131	119,422	(17,838)	(78,608)	-	22,976
December 2021 - forecast	7,072,853	(222,244)	(33,166)	(544,868)	-	(800,278)
January 2022 - forecast	6,186,833	(389,199)	(37,644)	(459,177)	-	(886,020)
February 2022 - forecast	5,432,449	(379,348)	(32,873)	(342,163)	-	(754,384)
March 2022 - forecast	5,204,705	(72,314)	(12,294)	(143,136)	-	(227,744)
April 2022 - forecast	5,136,915	52,409	(7,949)	(112,250)	-	(67,790)
May 2022 - forecast	5,096,390	178,459	(13,208)	(205,776)	-	(40,525)
June 2022 - forecast	$4,679,904	(78,884)	(26,552)	(311,050)	-	(416,486)
		1,617,877	209,253	2,852,774	-	4,679,904

Cumulative (over) / under recovery - **ENVIRONMENTAL**	**Cumulative**	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2021	($348,874)	(289,820)	(24,096)	(34,958)	-	(348,874)
March 2021 - actual	(370,923)	(10,494)	1,297	(12,852)	-	(22,049)
April 2021 - actual	(417,815)	(19,133)	(856)	(26,903)	-	(46,892)
May 2021 - actual	(364,529)	28,726	5,234	19,326	-	53,286
June 2021 - actual	(216,533)	68,730	11,233	68,033	-	147,996
July 2021 - actual	(15,048)	94,903	13,098	93,484	-	201,485
August 2021 - actual	186,473	101,086	11,206	89,229	-	201,521
September 2021 - actual	235,300	31,050	1,385	16,392	-	48,827
October 2021 - actual	247,122	14,779	(242)	(2,715)	-	11,822
November 2021 - forecast	313,911	38,807	3,049	24,933	-	66,789
December 2021 - forecast	489,881	91,611	10,656	73,703	-	175,970
January 2022 - forecast	759,822	132,504	16,486	120,951	-	269,941
February 2022 - forecast	1,009,118	122,021	15,061	112,214	-	249,296
March 2022 - forecast	1,055,810	29,651	2,089	14,952	-	46,692
April 2022 - forecast	1,077,072	18,456	437	2,369	-	21,262
May 2022 - forecast	1,120,326	30,195	1,791	11,268	-	43,254
June 2022 - forecast	$1,192,203	42,823	3,664	25,390	-	71,877
		525,895	71,492	594,816	-	1,192,203

Cumulative (over) / under recovery - **DERP AVOIDED COSTS**	**Cumulative**	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2021	(19,309)	(15,563)	510	(4,256)	-	(19,309)
March 2021 - actual	(30,648)	(799)	179	(10,719)	-	(11,339)
April 2021 - actual	(32,187)	3,561	690	(5,790)	-	(1,539)
May 2021 - actual	(27,598)	6,523	1,049	(2,983)	-	4,589
June 2021 - actual	(26,468)	4,740	851	(4,461)	-	1,130
July 2021 - actual	(32,855)	(579)	(71)	(5,737)	-	(6,387)
August 2021 - actual	(32,546)	529	(208)	(12)	-	309
September 2021 - actual	(37,543)	(1,898)	(595)	(2,504)	-	(4,997)
October 2021 - actual	(39,781)	62	(290)	(2,010)	-	(2,238)
November 2021 - forecast	(41,481)	(99)	(289)	(1,312)	-	(1,700)
December 2021 - forecast	(49,111)	(2,605)	(429)	(4,596)	-	(7,630)
January 2022 - forecast	(56,360)	(3,254)	(399)	(3,596)	-	(7,249)
February 2022 - forecast	(62,539)	(3,087)	(354)	(2,738)	-	(6,179)
March 2022 - forecast	(63,585)	(307)	(111)	(628)	-	(1,046)
April 2022 - forecast	(61,346)	1,530	61	648	-	2,239
May 2022 - forecast	(55,704)	3,821	229	1,592	-	5,642
June 2022 - forecast	(55,653)	707	(60)	(596)	-	51
		(6,718)	763	(49,698)	-	(55,653)

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
OCTOBER 2021

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	$147,324	$106,324	$68,553	$322,201
45	Billed S.C. DERP incremental rates by account ($/account)	Input	0.99	3.51	99.47	
46	Billed S.C. DERP incremental revenue	Input	$139,469	$115,374	$27,437	$282,280
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	7,855	($9,050)	$41,116	$39,921
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	**$7,855**	**($9,050)**	**$41,116**	**$39,921**

Cumulative (over) / under recovery	**Cumulative**	Total Residential	Commercial	Industrial	**Total**
Balance ending February 2021	$173,595	91,878	9,063	72,654	173,595
March 2021 - actual	164,763	(14,575)	(29,089)	34,832	(8,832)
April 2021 - actual	179,864	(2,281)	(20,080)	37,462	15,101
May 2021 - actual	197,477	(1,273)	(19,497)	38,383	17,613
June 2021 - actual	227,799	4,764	(15,382)	40,940	30,322
July 2021 - actual	285,295	16,483	(4,987)	46,000	57,496
August 2021 - actual	330,282	9,862	(7,391)	42,516	44,987
September 2021 - actual	381,229	12,481	(5,411)	43,877	50,947
October 2021 - actual	421,150	7,855	(9,050)	41,116	39,921
November 2021 - forecast	509,822	40,545	29,261	18,866	88,672
December 2021 - forecast	596,120	39,459	28,478	18,361	86,298
January 2022 - forecast	681,639	39,103	28,221	18,195	85,519
February 2022 - forecast	767,173	39,109	28,226	18,199	85,534
March 2022 - forecast	844,900	35,540	25,649	16,538	77,727
April 2022 - forecast	936,928	42,079	30,369	19,580	92,028
May 2022 - forecast	1,029,771	42,451	30,638	19,754	92,843
June 2022 - forecast	$1,120,114	41,308	29,813	19,222	90,343
		444,788	128,831	546,495	1,120,114

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts. Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/21 approved residential rate of 1.887 and RECD 5% discount.

_/2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/21 approved residential rate of .465 and RECD 5% discount.

_/3 Total residential billed environmental rate is a composite rate reflecting the 7/1/21 approved residential rate of .005 and RECD 5% discount.

_/4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/21 approved residential rate of .003 and RECD 5% discount.

Duke Energy Progress
Fuel and Fuel Related Cost Report
OCTOBER 2021

Description	Mayo Steam	Roxboro Steam	Asheville CC/CT	Smith Energy Complex CC/CT	Sutton CC/CT	Lee CC	Blewett CT
Cost of Fuel Purchased ($)							
Coal	$215,631	$17,978,747	-	-	-	-	-
Oil	-	299,363	-	-	-	-	-
Gas - CC	-	-	$8,226,569	$18,755,705	$10,901,066	$20,814,365	-
Gas - CT	-	-	882,697	2,562,445	399,413	-	-
Biogas	-	-	-	248,390	-	-	-
Total	$215,631	$18,278,110	$9,109,266	$21,566,540	$11,300,479	$20,814,365	-
Average Cost of Fuel Purchased (¢/MBTU)							
Coal	-	336.14	-	-	-	-	-
Oil	-	1,820.72	-	-	-	-	-
Gas - CC	-	-	585.37	452.32	627.22	490.07	-
Gas - CT	-	-	476.45	483.35	676.67	-	-
Biogas	-	-	-	3,390.99	-	-	-
Weighted Average	-	340.69	572.68	460.42	628.85	490.07	-
Cost of Fuel Burned ($)							
Coal	-	$6,520,029	-	-	-	-	-
Oil - CC	-	-	$325,729	$46	-	-	-
Oil - Steam/CT	-	187,730	3,092,217	-	-	-	-
Gas - CC	-	-	8,226,569	18,755,705	$10,901,066	$20,814,365	-
Gas - CT	-	-	882,697	2,562,445	399,413	-	-
Biogas	-	-	-	248,390	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	-	$6,707,759	$12,527,212	$21,566,586	$11,300,479	$20,814,365	-
Average Cost of Fuel Burned (¢/MBTU)							
Coal	-	269.16	-	-	-	-	-
Oil - CC	-	-	1,564.88	1,533.33	-	-	-
Oil - Steam/CT	-	1,986.14	1,564.84	-	-	-	-
Gas - CC	-	-	585.37	452.32	627.22	490.07	-
Gas - CT	-	-	476.45	483.35	676.67	-	-
Biogas	-	-	-	3,390.99	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	-	275.84	692.47	460.43	628.85	490.07	-
Average Cost of Generation (¢/kWh)							
Coal	-	2.90	-	-	-	-	-
Oil - CC	-	-	16.08	-	-	-	-
Oil - Steam/CT	-	22.71	16.73	-	-	-	-
Gas - CC	-	-	3.93	4.36	4.04	3.61	-
Gas - CT	-	-	5.05	1.82	6.55	-	-
Biogas	-	-	-	31.10	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	-	2.97	5.07	3.78	4.10	3.61	-
Burned MBTU's							
Coal	-	2,422,330	-	-	-	-	-
Oil - CC	-	-	20,815	3	-	-	-
Oil - Steam/CT	-	9,452	197,606	-	-	-	-
Gas - CC	-	-	1,405,368	4,146,587	1,737,990	4,247,193	-
Gas - CT	-	-	185,265	530,143	59,026	-	-
Biogas	-	-	-	7,325	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	-	2,431,782	1,809,054	4,684,058	1,797,016	4,247,193	-
Net Generation (mWh)							
Coal	(7,534)	224,771	-	-	-	-	-
Oil - CC	-	-	2,026	-	-	-	-
Oil - Steam/CT	-	826	18,478	-	-	-	(27)
Gas - CC	-	-	209,148	429,840	269,625	576,699	-
Gas - CT	-	-	17,471	140,573	6,099	-	-
Biogas	-	-	-	799	-	-	-
Nuclear	-	-	-	-	-	-	-
Hydro (Total System)							
Solar (Total System)							
Total	(7,534)	225,597	247,123	571,212	275,724	576,699	(27)
Cost of Reagents Consumed ($)							
Ammonia	-	$106,349	-	$13,241	-	-	-
Limestone	-	290,707	-	-	-	-	-
Re-emission Chemical	-	-	-	-	-	-	-
Sorbents	-	107,664	-	-	-	-	-
Urea	-	-	-	-	-	-	-
Total	-	$504,720	-	$13,241	-	-	-

Notes:
Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit, terminal and tolling agreement activity.
Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.
Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Description	Darlington CT	Wayne County CT	Weatherspoon CT	Brunswick Nuclear	Harris Nuclear	Robinson Nuclear	Current Month	Total 12 ME OCTOBER 2021
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	-	-	$18,194,378	$217,781,478
Oil	-	-	-	-	-	-	299,363	7,341,484
Gas - CC	-	-	-	-	-	-	58,697,705	622,036,774
Gas - CT	$74,921	$454,619	$24	-	-	-	4,374,119	67,820,884
Biogas	-	-	-	-	-	-	248,390	3,184,291
Total	$74,921	$454,619	$24	-	-	-	$81,813,955	$918,164,911
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	340.17	326.49
Oil	-	-	-	-	-	-	1,820.72	1,417.28
Gas - CC	-	-	-	-	-	-	508.77	430.84
Gas - CT	1,803.15	448.79	-	-	-	-	497.12	384.98
Biogas	-	-	-	-	-	-	3,390.99	2,921.82
Weighted Average	1,803.15	448.79	-	-	-	-	459.90	400.38
Cost of Fuel Burned ($)								
Coal	-	-	-	-	-	-	$6,520,029	$285,390,343
Oil - CC	-	-	-	-	-	-	325,775	329,920
Oil - Steam/CT	-	-	-	-	-	-	3,279,947	21,429,621
Gas - CC	-	-	-	-	-	-	58,697,705	622,036,774
Gas - CT	$74,921	$454,619	$24	-	-	-	4,374,119	67,820,884
Biogas	-	-	-	-	-	-	248,390	3,184,291
Nuclear	-	-	-	$8,138,527	$4,508,685	$1,960,976	14,608,188	171,989,019
Total	$74,921	$454,619	$24	$8,138,527	$4,508,685	$1,960,976	$88,054,153	$1,172,180,852
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	269.16	323.16
Oil - CC	-	-	-	-	-	-	1,564.87	1,564.94
Oil - Steam/CT	-	-	-	-	-	-	1,584.07	1,527.98
Gas - CC	-	-	-	-	-	-	508.77	430.84
Gas - CT	1,803.15	448.79	-	-	-	-	497.12	384.98
Biogas	-	-	-	-	-	-	3,390.99	2,921.82
Nuclear	-	-	-	54.88	60.30	57.90	56.85	56.75
Weighted Average	1,803.15	448.79	-	54.88	60.30	57.90	215.98	211.24
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.00	3.72
Oil - CC	-	-	-	-	-	-	16.08	16.07
Oil - Steam/CT	-	-	-	-	-	-	17.01	20.42
Gas - CC	-	-	-	-	-	-	3.95	3.08
Gas - CT	40.50	5.15	-	-	-	-	2.53	4.26
Biogas	-	-	-	-	-	-	31.10	21.12
Nuclear	-	-	-	0.58	0.62	0.61	0.59	0.59
Weighted Average	40.50	5.15	-	0.58	0.62	0.61	1.99	1.96
Burned MBTU's								
Coal	-	-	-	-	-	-	2,422,330	88,312,768
Oil - CC	-	-	-	-	-	-	20,818	21,082
Oil - Steam/CT	-	-	-	-	-	-	207,058	1,402,483
Gas - CC	-	-	-	-	-	-	11,537,138	144,378,908
Gas - CT	4,155	101,298	-	-	-	-	879,887	17,616,899
Biogas	-	-	-	-	-	-	7,325	108,983
Nuclear	-	-	-	14,830,941	7,477,626	3,386,541	25,695,108	303,057,703
Total	4,155	101,298	-	14,830,941	7,477,626	3,386,541	40,769,664	554,898,826
Net Generation (mWh)								
Coal	-	-	-	-	-	-	217,237	7,662,371
Oil - CC	-	-	-	-	-	-	2,026	2,053
Oil - Steam/CT	-	-	-	-	-	-	19,278	104,968
Gas - CC	-	-	-	-	-	-	1,485,312	20,163,948
Gas - CT	185	8,822	(63)	-	-	-	173,087	1,590,676
Biogas	-	-	-	-	-	-	799	15,079
Nuclear	-	-	-	1,414,835	732,369	319,452	2,466,656	29,091,284
Hydro (Total System)							38,181	807,448
Solar (Total System)							20,229	251,173
Total	185	8,822	(63)	1,414,835	732,369	319,452	4,422,804	59,689,000
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	-	-	$119,590	$2,699,317
Limestone	-	-	-	-	-	-	290,707	9,987,274
Re-emission Chemical	-	-	-	-	-	-	-	69,146
Sorbents	-	-	-	-	-	-	107,664	3,455,017
Urea	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	$517,961	$16,210,754

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
OCTOBER 2021

Description	Mayo	Roxboro	Asheville	Smith Energy Complex	Sutton	Lee	Blewett
Coal Data:							
Beginning balance	155,013	447,241	-	-	-	-	-
Tons received during period	-	208,524	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons burned during period	0	96,442	-	-	-	-	-
Ending balance	155,013	559,323	-	-	-	-	-
MBTUs per ton burned	-	25.12	-	-	-	-	-
Cost of ending inventory ($/ton)	67.17	67.57	-	-	-	-	-
Oil Data:							
Beginning balance	282,346	322,192	3,123,041	6,657,712	2,444,387	-	693,454
Gallons received during period	0	119,144	-	-	-	-	-
Miscellaneous use and adjustments	(1,124)	(7,436)	0	-	-	-	-
Gallons burned during period	-	85,172	1,587,710	20	-	-	-
Ending balance	281,222	348,728	1,535,331	6,657,692	2,444,387	-	693,454
Cost of ending inventory ($/gal)	2.05	2.20	2.15	2.33	2.80	-	2.37
Natural Gas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	1,539,842	4,527,116	1,739,791	4,111,340	-
MCF burned during period	-	-	1,539,842	4,527,116	1,739,791	4,111,340	-
Ending balance	-	-	-	-	-	-	-
Biogas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	-	7,089	-	-	-
MCF burned during period	-	-	-	7,089	-	-	-
Ending balance	-	-	-	-	-	-	-
Limestone/Lime Data:							
Beginning balance	10,807	30,058	-	-	-	-	-
Tons received during period	-	14,447	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons consumed during period	-	5,880	-	-	-	-	-
Ending balance	10,807	38,625	-	-	-	-	-
Cost of ending inventory ($/ton)	73.35	48.42	-	-	-	-	-

Notes:
Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit, terminal and tolling agreement activity.
Gas is burned as received; therefore, inventory balances are not maintained.
The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
OCTOBER 2021

Description	Darlington	Wayne County	Weatherspoon	Brunswick	Harris	Robinson	Current Month	Total 12 ME October 2021
Coal Data:								
Beginning balance	-	-	-	-	-	-	602,254	1,238,701
Tons received during period	-	-	-	-	-	-	208,524	2,643,498
Inventory adjustments	-	-	-	-	-	-	-	359,750
Tons burned during period	-	-	-	-	-	-	96,442	3,527,613
Ending balance	-	-	-	-	-	-	714,336	714,336
MBTUs per ton burned	-	-	-	-	-	-	25.12	25.03
Cost of ending inventory ($/ton)	-	-	-	-	-	-	67.48	67.48
Oil Data:								
Beginning balance	9,786,516	9,377,665	396,417	117,269	250,015	14,794	33,465,808	38,661,570
Gallons received during period	-	-	-	-	-	-	119,144	3,753,600
Miscellaneous use and adjustments	-	-	-	-	-	-	(8,560)	(134,806)
Gallons burned during period	-	-	-	-	-	14,794	1,687,696	10,391,668
Ending balance	9,786,516	9,377,665	396,417	117,269	250,015	0	31,888,696	31,888,696
Cost of ending inventory ($/gal)	2.39	2.40	2.32	2.31	2.31	0.00	2.39	2.39
Natural Gas Data:								
Beginning balance	-	-	-	-	-	-	-	-
MCF received during period	4,030	98,053	-	-	-	-	12,020,172	156,562,183
MCF burned during period	4,030	98,053	-	-	-	-	12,020,172	156,562,183
Ending balance	-	-	-	-	-	-	-	-
Biogas Data:								
Beginning balance	-	-	-	-	-	-	-	-
MCF received during period	-	-	-	-	-	-	7,089	105,309
MCF burned during period	-	-	-	-	-	-	7,089	105,309
Ending balance	-	-	-	-	-	-	-	-
Limestone/Lime Data:								
Beginning balance	-	-	-	-	-	-	40,865	84,664
Tons received during period	-	-	-	-	-	-	14,447	135,397
Inventory adjustments	-	-	-	-	-	-	-	12,092
Tons consumed during period	-	-	-	-	-	-	5,880	182,721
Ending balance	-	-	-	-	-	-	49,432	49,432
Cost of ending inventory ($/ton)	-	-	-	-	-	-	53.87	53.87

Schedule 7

DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

OCTOBER 2021

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
MAYO	SPOT	-	$ 1,969	-
	CONTRACT	-	5,592	-
	FIXED TRANSPORTATION/ADJUSTMENTS	-	208,070	-
	TOTAL	-	$ 215,631	-
ROXBORO	SPOT	86,378	$ 7,594,568	$ 87.92
	CONTRACT	122,146	9,656,084	79.05
	FIXED TRANSPORTATION/ADJUSTMENTS	-	728,095	-
	TOTAL	208,524	$ 17,978,747	$ 86.22
ALL PLANTS	SPOT	86,378	$ 7,596,537	$ 87.95
	CONTRACT	122,146	9,661,676	79.10
	FIXED TRANSPORTATION/ADJUSTMENTS	-	936,165	-
	TOTAL	208,524	$ 18,194,378	$ 87.25

Schedule 8

DUKE ENERGY PROGRESS

ANALYSIS OF COAL QUALITY RECEIVED

OCTOBER 2021

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
MAYO	-	-	-	-
ROXBORO	6.42	8.81	12,825	2.11

DUKE ENERGY PROGRESS

ANALYSIS OF OIL PURCHASED

OCTOBER 2021

	ROXBORO
VENDOR	Greensboro Tank Farm & Indigo
SPOT/CONTRACT	Contract
SULFUR CONTENT %	0
GALLONS RECEIVED	119,144
TOTAL DELIVERED COST	$ 299,363
DELIVERED COST/GALLON	$ 2.51
BTU/GALLON	138,000

Duke Energy Progress Power Plant Performance Data Twelve Month Summary
Report Period: November 2020 - October 2021

Unit	Net Generation (MWH)	Capacity Rating (MW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	8,046,885	938	97.93	96.05
Brunswick 2	7,443,608	932	91.17	90.66
Harris 1	7,812,546	964	92.51	90.91
Robinson 2	5,788,245	759	87.06	85.55

EAF is calculated using Standard NERC calculation and excludes OMC events

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
November, 2020 through October, 2021
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,039,676	225	52.75	64.29
Lee Energy Complex	1B	954,878	227	48.02	58.86
Lee Energy Complex	1C	1,148,058	228	57.48	70.51
Lee Energy Complex	ST1	2,086,152	379	62.84	82.16
Lee Energy Complex	Block Total	5,228,764	1,059	56.36	70.86
Smith Energy Complex	7	977,113	193	57.74	70.14
Smith Energy Complex	8	929,177	193	54.91	68.55
Smith Energy Complex	ST4	1,105,698	184	68.72	75.46
Smith Energy Complex	9	1,280,733	215	67.95	82.44
Smith Energy Complex	10	1,312,849	215	69.65	83.91
Smith Energy Complex	ST5	1,666,724	251	75.70	92.70
Smith Energy Complex	Block Total	7,272,294	1,252	66.33	79.69
Sutton Energy Complex	1A	1,263,967	224	64.41	78.20
Sutton Energy Complex	1B	1,291,347	224	65.81	79.67
Sutton Energy Complex	ST1	1,553,543	271	65.44	89.56
Sutton Energy Complex	Block Total	4,108,857	719	65.24	82.94
Asheville CC	ACC CT5	1,128,172	191	67.61	81.71
Asheville CC	ACC CT7	1,253,611	191	75.12	82.52
Asheville CC	ACC ST6	557,825	90	70.75	73.07
Asheville CC	ACC ST8	631,557	90	80.11	88.20
Asheville CC	Block Total	3,571,165	561	72.67	81.66

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
November, 2020 through October, 2021

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,301,149	719	20.67	38.92
Roxboro 2	1,562,458	673	26.50	74.83
Roxboro 3	2,409,820	698	39.41	71.52
Roxboro 4	1,735,482	711	27.86	57.52

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
November, 2020 through October, 2021
Other Cycling Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Roxboro 1	677,096	380	20.34	82.49

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
November, 2020 through October, 2021
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	149,156	366	92.42
Blewett CT	31	68	81.33
Darlington CT	4,461	264	94.18
Smith Energy Complex CT	1,199,723	956	85.66
Sutton Fast Start CT	32,289	98	89.66
Wayne County	285,408	959	94.58
Weatherspoon CT	942	164	97.70

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data

Twelve Month Summary
November, 2020 through October, 2021
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	116,950	27.0	85.08
Marshall	919	4.0	80.49
Tillery	246,257	84.8	91.80
Walters	443,322	113.0	61.30

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.